

**Amendments to the Specification:**

Please replace paragraph [0077], on page 18 with the following paragraph:

As best shown in FIG. 9, DOE 806 may be used as a beam splitter or a spot-array generator, or as a fan-out element. The output beams of the DOE are duplicates of the incident beam propagating from ultrafast laser oscillator 100. Each output beam, however, propagates in a different direction. With the addition of telecentric f-θ lens 808, the angle beam pattern is transformed into a parallel beam pattern, which may be focused in several planes to produce an array of sub-beams similar to the array of sub-beams formed by imaging mask 114. As with the array of sub-beams formed using imaging mask 114, it is desirable for the array of sub-beams formed using DOE 806 and telecentric f-θ lens 808 to have a density of  $1/N$  times the image density of the reduced-size pattern to be machined on work piece 124, times the demagnification factor of the demagnifier. The array of sub-beams is configured to translate  $N$ -times in a perpendicular direction to the optical path by a translation controller to form the array of holes of the second pitch size in workpiece 124. The second pitch size is less than the diffraction limit of the laser beam, and the first pitch size is greater than the diffraction limit of the laser beam multiplied by a demagnification factor of the demagnifier.